

# SCM1 Series





Specifications

Model Name		SCM1-D	SCM1-DP	SCM1-J
Number of Spindles/ Head		2Spindles×1Gantry 1Spindle×1Gantry(Optional)	2 Spindles×1Gantry (1 Spindle + 1 Dispenser)	2Spindles×1Gantry
Alignment		1 Stage Vision	1 Stage Vision	2 Stage Visions
PCB Transfer		Dual Lane	Dual Lane + Inverter (Option)	Single Lane
Placement Rate		2,400CPH (1Spindle, Hanwha Techwin's Standard) 3,000CPH (2Spindle, Hanwha Techwin's Standard)	2,400CPH (1608, Hanwha Techwin's Standard)	2,000CPH (Hanwha Techwin's Standard)
Placement Accuracy		±50um @ Cpk1.0 (1005)	±50um @ Cpk1.0 (1005)	±100um @ Cpk1.0 (Chip) ±60um @ Cpk1.0 (IC)
Component Range	Stage Vision (FOV45)	1005 ~ □ 45mm	1005 ~ □ 45mm	1005 ~ □ 45mm
	Max. Height	H15mm	H15mm	H42mm
PCB (L×W mm)	Min.	50×50mm	50×50mm	50×50mm
	Max.	295×250mm 250×250mm (Option)	240×250mm	295×250mm
	Thickness	0.38 ~ 4.2mm	0.38 ~ 4.2mm	0.38 ~ 4.2mm
Feeder Capacity		32ea(16 * Front/Rear Sides)	16ea (Front)	16ea (Front)
Feeder Type		Tape Feeder	Tape Feeder, Label Feeder	Tape Feeder, Tray Feeder, Label Feeder , Multi-Stack Stick Feeder, etc.
Utility	Power	AC 220V(50/60Hz, 1Phase) Max. 2.0kVA	AC 220V(50/60Hz, 1Phase) Max. 2.0kVA	AC 220V(50/60Hz, 1Phase) Max. 2.0kVA
	Air Consumption	0.5~0.7MPa(5.1~7.1kgf/cm <sup>2</sup> ) 150Nℓ/min	0.5~0.7MPa(5.1~7.1kgf/cm <sup>2</sup> ) 150Nℓ/min	0.5~0.7MPa(5.1~7.1kgf/cm <sup>2</sup> ) 150Nℓ/min
Weight		Approx. 950kg	Approx. 920kg	Approx. 750kg
External Dimension (L×D×H mm)		680(865)×1,870×1,480 ( ) When including an extended conveyor	680(977)×1,870×1,480 ( ) When an inverter is installed	680(865)×1,850×1,540 ( ) When including an extended conveyor

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※ Please note that specifications and product information in this catalog are subject to change without notice.



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Special Component Mounter

SCM1 Series

Provides convenience and a solution optimized for various special processes including the placement of odd-shaped components and shield cans, bond dispensing, etc.



SCM1-J

- Super slim, multi-functional odd-shaped component placer (width: 680mm)
- Improved handling capability of odd-shaped components
  - 1005~ □ 45mm, □ 80x60mm(MFOV), H42mm
  - Laser lighting for the recognition of insert components
  - Back lighting (option)
- Available for various component supplying devices
  - Tape Feeder, Tray Feeder, Label Feeder, Multi-Stack Stick Feeder, etc.
- Available for special processes
  - Placement of insert components and shield cans/ Bond dispensing/ Applicable to special processes such as PiP and PoP/Others.



## Small, Multi-Functional Odd-shaped Component Placer

# SCM1-J



- Super slim, multi-functional odd-shaped component placer (width: 680mm)
- Improved handling capability of odd-shaped components
  - 1005~□45mm,
  - □80x60mm(MFOV),
  - H42mm
  - Laser lighting for the recognition of insert components
  - Back lighting (option)
- Available for various component supplying devices
  - Tape Feeder, Tray Feeder,
  - Label Feeder,
  - Multi-Stack Stick Feeder, etc.
- Available for special processes
  - Placement of insert components and shield cans/ Bond dispensing/ Applicable to special processes such as PiP and PoP/Others.

### Provides an optimum solution for the placement of large electric components and insert components

#### ■ Placement Force Control Function

Applies the 3N~40N Z-axis force control function for the placement of general SMD components as well as various insert components.



#### ■ Provides various lighting options

Increased capability of the Pin recognition of an insert component by providing laser lighting.

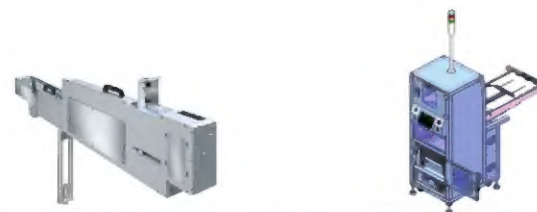


#### ■ Provides Gripper Nozzle

Available for large odd-shaped components with height up to 42mm.



### Provides Various Component Supply Devices



Multi-Stack Stick Feeder

Dedicated Tray Feeder

## Odd-shaped Component Placer for Shield Cans

# SCM1-D

※ Please contact us for single conveyor specifications (SCM1-S)



- Super slim, odd-shaped dedicated component placer (width: 680mm)
- Improved handling capability of odd-shaped components
  - ~□45mm, H15mm
  - Recognition of components with back lighting
  - Shield can placement inspection
- Capable for dual lane mixed production
  - Same PCB (Top/Bottom)
- Mixed use of Electric feeders and pneumatic feeders
- Built-in Tape Cutter (Option)

### Improved handling capability of shield cans

#### ■ Recognition with Back Lighting

Applies back lighting in the head to remove defused reflection and background noise due to component material, increasing the vision recognition rate.



#### ■ Placement Inspection Function

It is possible to prevent the occurrence of defective shield cans in advance by inspecting a shield can after placing it.



#### ■ Applies a recognition algorithm dedicated to shield cans

Provides automatic component teaching function, editing screen dedicated to shield cans, etc.



### Mixed Use of Electric Feeder and Pneumatic Feeder



Splicing Detection Sensor



Joint Tape Dedicated to Splicing Detection

## Odd-shaped component placer for bond dispensing

# SCM1-DP

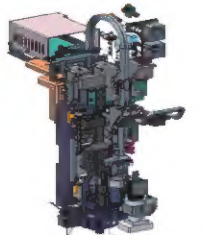


- Super slim, odd-shaped dedicated component placer (width: 680mm)
- Provides a dispenser head
  - 25spindles(1Nozzle+1Dispenser)×1G
- Inverter placement (option)
- Simultaneous placement components at the top/bottom surfaces with one machine
- Label Feeder(Optional)
- Mixed Use of Electric Feeder and Pneumatic Feeder
- Built-in Tape Cutter (Option)

### Increased Capability for Dispensing

#### ■ Provides a dispenser head

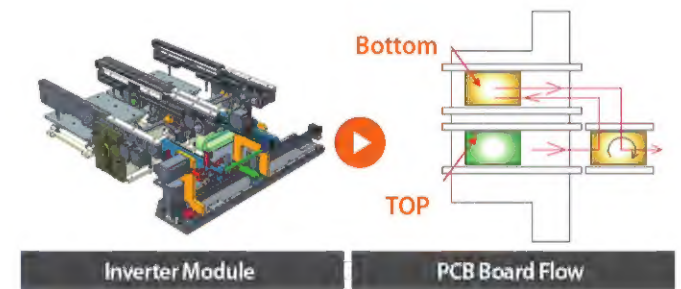
Provides a head equipped with one nozzle and one dispenser.



1Nozzle+1Dispenser

#### ■ Simultaneous Placement of PCBs (Top/Bottom)

Equipped with an inverter, one machine can place components at the top and bottom surfaces simultaneously.



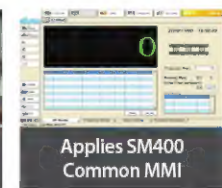
Inverter Module

PCB Board Flow

### Increased Convenience of Use



Built-in Tape Cutter (Option)



Applies SM400 Common MMI



Dedicated Job Change Screen